

**WHAT IS CLAIMED IS:**

1. An RF transmitter for being attached to microphone which is connected to a microphone having a first jack capable of supplying an electric power to another microphone and a second jack for outputting an audio signal, comprising:

5 a first connecting plug which is inserted into said first jack to receive said electric power;

a second connecting plug which is inserted into said second jack to receive said audio signal;

10 modulation means which receives said electric power and modulates said audio signal inputted from said second connecting plug; and

transmitting means which receives said electric power and transmits said audio signal modulated by said modulation means to an RF receiver.

2. A transmitter according to claim 1, wherein said modulation means frequency-modulates said audio signal.

15 3. A transmitter according to claim 1 or 2, wherein said first jack includes a first jack terminal connected to said electric power and a second jack terminal connected to a first terminating resistor, and

said first connecting plug includes a first plug terminal connected to said first jack terminal and a second plug terminal connected to said second jack terminal to open said 20 first terminating resistor, further comprising

a power supply line which receives said electric power from said first plug terminal.

4. A transmitter according to claim 3, further comprising a diode bearing an anode connected to said power supply line and a cathode connected to a reference voltage.

25 5. A transmitter according to claim 4, wherein said diode is a light-emitting diode

arranged to allow an emission to be viewed from an external.

6. A transmitter according to any one of claims 1 to 5, further comprising a microphone jack which is connected with further microphone different from said microphone.

5 7. A transmitter according to claim 6, wherein said microphone jack includes a first microphone jack terminal connected to said first plug terminal and a second microphone jack terminal detachably connected to a second terminating resistor, when a microphone plug of said further microphone is inserted into said microphone jack. said second terminating resistor is opened.

10 8. A transmitter according to any one of claims 1 to 7, wherein said second jack of said microphone includes a third jack terminal to withdraw a first audio signal and a fourth jack terminal to withdraw a second audio signal, and

said second connecting plug includes a third plug terminal and a fourth plug terminal connected to said third jack terminal and said fourth jack terminal, respectively,  
15 further comprising

a mixing circuit which mixes the first audio signal from said third plug terminal and the second audio signal from said fourth plug terminal with each other to be applied to said modulation means.